

INTERNATIONAL SEARCH REPORT

Intern Application No
PCT/IB2004/052058

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G11B7/007 G11B7/0045

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>US 2003/103431 A1 (KURODA KAZUTO) 5 June 2003 (2003-06-05) page 1, paragraph 12 page 1, paragraph 15 page 2, paragraph 27 page 2, paragraph 38 - page 3, paragraph 49 page 4, paragraph 69 - page 5, paragraph 82</p> <p style="text-align: center;">----- -/-</p>	1-5

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

17 May 2005

Date of mailing of the international search report

25/05/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Brezmes Alonso, F

INTERNATIONAL SEARCH REPORT

Intern Application No
PCT/IB2004/052058

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 187 110 A (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD) 13 March 2002 (2002-03-13) column 3, paragraph 17 - column 4, paragraph 24 column 5, paragraph 31 - column 5, paragraph 37 column 12, paragraph 92 - column 12, paragraph 99 -----	1,5
A	EP 0 712 130 A (MITSUMI ELECTRIC COMPANY LTD) 15 May 1996 (1996-05-15) column 3, line 16 - column 4, line 46 column 12, line 40 - column 14, line 39 -----	1-5
A	US 2003/081535 A1 (ROSS KEVIN) 1 May 2003 (2003-05-01) page 1, paragraph 6 - page 1, paragraph 8 page 2, paragraph 15 page 2, paragraph 19 -----	2

INTERNATIONAL SEARCH REPORT

Information on patent family members

Inten Application No
PCT/IB2004/052058

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 2003103431	A1	05-06-2003	JP	2003173528 A	20-06-2003
EP 1187110	A	13-03-2002	AU	3326700 A	09-10-2000
			BR	0010777 A	15-01-2002
			EP	1187110 A1	13-03-2002
			US	6633535 B1	14-10-2003
			CN	1344407 A ,C	10-04-2002
			CN	1521736 A	18-08-2004
			WO	0057410 A1	28-09-2000
EP 0712130	A	15-05-1996	JP	8147702 A	07-06-1996
			CA	2161922 A1	12-05-1996
			DE	69520647 D1	17-05-2001
			DE	69520647 T2	18-10-2001
			EP	0712130 A1	15-05-1996
			US	5721856 A	24-02-1998
US 2003081535	A1	01-05-2003	EP	1442459 A1	04-08-2004
			WO	03038823 A1	08-05-2003
			JP	2005507541 T	17-03-2005